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monkeys to those which bound him to the Ascidians, and so on to the "primordial slime." As to reducing man's free will to that of a monad, his soul to the functional activity of the brain, his creator to the energy pervading matter,—in this Haeckel was caught napping; it is an old story. We are from first to last struck by the guileless faith of the man, a quality sometimes combined with an intensity of purpose and, we may add, an intolerance of opposing views which characterize the seer. We have here none of the halting in judgment and caution of Darwin, but rather the special pleading of the advocate of a unique theory which gives no quarter to any other.

The merit of the History of Creation is that it gives a rapid, clear-cut, dogmatic sketch of the subject. And though Haeckel's mode of settling the universe may be quite different from ours, his sketch of the origin of the animal world may be a rough approximation to what will probably be found on future research a reasonably truthful history. As an exposition of Darwinism as such, with its possible, not probable, consequences, it is the best in the language, now that we have such an excellent translation of the *Geschöpfungsgeschichte* which was published in 1868. The work is certainly original and striking in its many suggestions, and it has this unusual merit, that as an exposition of Darwinism by an ultra Darwinian it gives Lamarck full credit as the founder of the modern doctrine of transmutation or evolution. The work has so long been in the hands of the public that it would be superfluous for us to enter into a more detailed criticism or examination of its contents, but in closing we would say that any naturalist who has not read it has a treat before him, whether he accepts all the author's conclusions or not.

THE WARFARE OF SCIENCE.¹—Though the battle of evolution has been fought, and the victory of the evolutionists complete, divines and metaphysicians falling into the lines of the victors, there are some who do not seem to be aware that they have been vanquished. Their eyes may be opened by President White's candid and impartial review of the struggles of scientific men with the bigoted of past ages as well as of the present period. He concludes: "First. In every case, whether the war has been long or short, forcible or feeble, science has at last gained the victory. Secondly. In every case interference with science, in the supposed interest of religion, has brought dire evils on both. Thirdly. In every case while this interference, during its continuance, has tended to divorce religion from the most vigorous thinking in the world and to make it odious to multitudes of the most earnest thinkers, the triumph of science has led its former conscientious enemies to make new interpretations and lasting adjustments, which have proved a blessing to religion, ennobling its conceptions and bettering its methods."

JOHNSON'S CYCLOPÆDIA.²—We have already called attention to

¹ *The Warfare of Science*. By ANDREW D. WHITE, LL. D. New York: D. Appleton & Co. 12mo, pp. 151. \$1.00.

² *Johnson's New Universal Cyclopædia: a Scientific and Popular Treasury of Useful*

this work and to the features that render it especially serviceable to naturalists. It is strong in the scientific articles. The present volume contains articles by Abbe, Barnard, T. M. Brewer, Cope, Farlow, Gray, Goodale, Gill, Guyot, Henry, Marsh, Mayer, Morgan, Newberry, Packard, Pumpelly, Riley, Shaler, Verrill, and Wurtz. We regret to see no biographical notice of the late Mr. F. B. Meek, so eminent as a palæontologist, nor of Haeckel or Gegenbaur. The fourth volume will appear early this year.

RECENT BOOKS AND PAMPHLETS. — The Geographical Distribution of Animals. With a Study of the Relations of Living and Extinct Faunas, as elucidating the Past Changes of the Earth's Surface. By Alfred Russel Wallace. In two volumes. With Maps and Illustrations. New York: Harper & Brothers. 1876. 8vo, pp. 503, 607. \$10.00.

Climate and Time in their Geological Relations: a Theory of Secular Changes of the Earth's Climate. By James Croll. New York: D. Appleton & Co. 1875. 12mo, pp. 577.

The History of Creation: or the Development of the Earth and its Inhabitants by the Action of Natural Causes. A popular exposition of the Doctrine of Evolution in general, and of that of Darwin, Goethe, and Lamarck in particular. From the German of Ernst Haeckel. The Translation revised by Prof. E. Ray Lankester. In 2 vols. New York: D. Appleton & Co. 1876. 12mo, pp. 374, 408. With Illustrations. \$5.00.

A Class-Book of Chemistry, on the Basis of the New System. By Edward L. Youmans, M. D. Rewritten and revised, with many new Illustrations. New York: D. Appleton & Co. 1876. 12mo, pp. 348. \$1.75.

Elements of Physics or Natural Philosophy. By Neil Arnott. Seventh edition, edited by Alexander Bain and A. S. Taylor. New York: D. Appleton & Co. 1877. 12mo, pp. 873. \$3.00.

Inventional Geometry: a Series of Problems, intended to familiarize the Pupil with Geometrical Conceptions, and to exercise his Inventive Faculty. By W. G. Spencer. With a Prefatory Note by Herbert Spencer. New York: D. Appleton & Co. 1877. Small 12mo, pp. 97.

Lessons from Nature, as manifested in Mind and Matter. By St. George Mivart. New York. 1876. 12mo, pp. 449. \$2.00.

The Warfare of Science. By President A. D. White. New York: D. Appleton & Co. 1876. 12mo, pp. 151. \$1.00.

Nature and Life. Facts and Doctrines relating to the Constitution of Matter, the New Dynamics, and the Philosophy of Nature. By Ferdinand Papillon. Translated from the second French edition. By A. R. Macdonough. New York: D. Appleton & Co. 1875. 12mo, pp. 363. \$2.00.

The Chemistry of Light and Photography. By Dr. Hermann Vogel. With 100 Illustrations. (International Scientific Series.) New York: D. Appleton & Co. 1875. 12mo, pp. 286. \$2.00.

The Five Senses of Man. By Julius Bernstein. (The International Scientific Series.) With 91 Wood-Cuts. New York: D. Appleton & Co. 1876. 12mo, pp. 304. \$1.75.

The Nature of Light, with a General Account of Physical Optics. By Dr. Eugene Lommel. (The International Scientific Series.) With 188 Illustrations, and a Plate of Spectra in Chromo-lithography. New York: D. Appleton & Co. 1876. 12mo, pp. 356. \$2.00.

Knowledge. Illustrated with Maps, Plans, and Engravings. Editors-in-chief, F. A. P. BARNARD and ARNOLD GUYOT. In 4 vols. Vol. iii. Lichfield—R. A. J. Johnson & Son. New York. 1877. 4to, pp. 1760. \$10.00 for each volume.